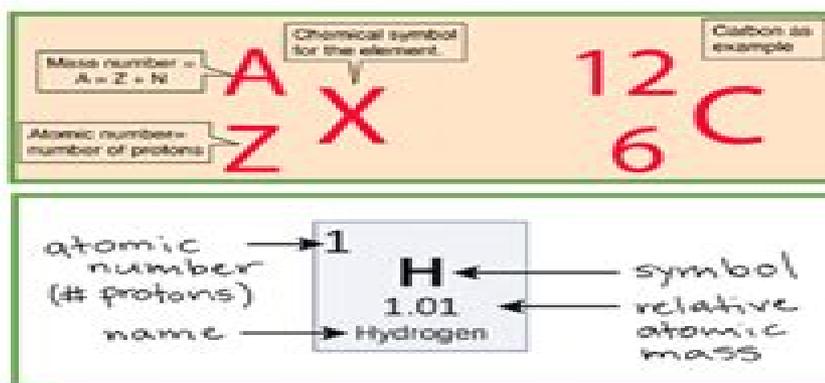


## Chapter 1

You should be able to:

- Identify the key steps in the Scientific Method.
  - Step 1: Make observations.
  - Step 2: Formulate a hypothesis.
  - Step 3: Test the hypothesis through experimentation.
  - Step 4: Accept or modify the hypothesis. (develop a model)
  - Step 5: Develop into a law and/or a theory. (conduct further experiments)
- Explain the difference between an atom and an element.
  - **Atom:** is the **smallest component of an element**, containing neutrons, protons and electrons, and **makes up everything around us**.
  - **Element:** is a substance in which all of the atoms have the same atomic (proton) number. It is also defined as a substance which cannot be broken down by chemical means
- Describe the subatomic particles (protons, neutrons and electrons) and their location in the nuclear model of the atom.
  - **Electron:** A **negatively** charged subatomic particle **found outside** the nucleus of all atoms.
  - **Neutrons:** An **electrically neutral** with a mass & diameter slightly greater than that of a proton **located in the nucleus**
  - **Proton:** A **positively** charged particle **in the nucleus** of an atom.
- Identify an element by its atomic number and chemical symbol



- Write the full atomic symbol for any neutral atom or ion.

# Chemistry 101 Study Guide

**Sabine Zange**



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## **Table of Contents Chemistry 101 Study Guide**

1. Understanding the eBook Chemistry 101 Study Guide
  - The Rise of Digital Reading Chemistry 101 Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Chemistry 101 Study Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Chemistry 101 Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Chemistry 101 Study Guide

- Personalized Recommendations
  - Chemistry 101 Study Guide User Reviews and Ratings
  - Chemistry 101 Study Guide and Bestseller Lists
5. Accessing Chemistry 101 Study Guide Free and Paid eBooks
    - Chemistry 101 Study Guide Public Domain eBooks
    - Chemistry 101 Study Guide eBook Subscription Services
    - Chemistry 101 Study Guide Budget-Friendly Options
  6. Navigating Chemistry 101 Study Guide eBook Formats
    - ePub, PDF, MOBI, and More
    - Chemistry 101 Study Guide Compatibility with Devices
    - Chemistry 101 Study Guide Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Chemistry 101 Study Guide
    - Highlighting and Note-Taking Chemistry 101 Study Guide
    - Interactive Elements Chemistry 101 Study Guide
  8. Staying Engaged with Chemistry 101 Study Guide
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Chemistry 101 Study Guide
  9. Balancing eBooks and Physical Books Chemistry 101 Study Guide
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Chemistry 101 Study Guide
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Chemistry 101 Study Guide
    - Setting Reading Goals Chemistry 101 Study Guide
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Chemistry 101 Study Guide

- Fact-Checking eBook Content of Chemistry 101 Study Guide
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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